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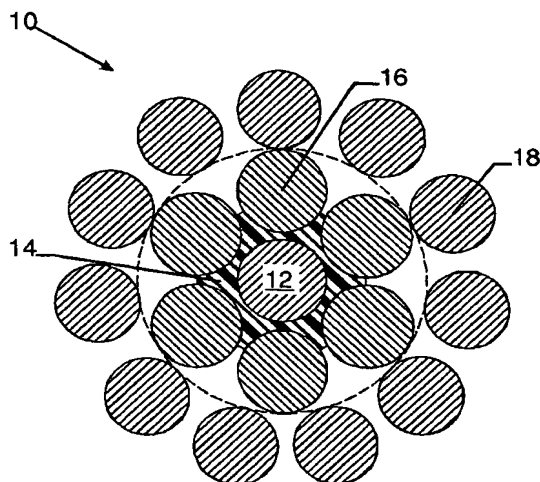
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(54) Title: OPEN LAYERED STEEL CORD WITH HIGH BREAKING LOAD



(57) Abstract: A steel cord (10) adapted for the reinforcement of elastomers comprises: a core steel filament (12) with a core steel filament diameter d_c and coated with a polymer (14); six intermediate steel filaments (16) with an intermediate steel filament diameter d_i smaller than or equal to the core steel filament diameter d_c ; these intermediate steel filaments (16) are twisted around the core steel filament (12); ten or eleven outer steel filaments (18) with an outer steel filament diameter d_o smaller than or equal to the intermediate steel filament diameter d_i ; these outer steel filaments (18) are twisted around the intermediate steel filaments (16), the outer steel filaments (18) are preformed in order to allow rubber penetration inside the core (10). The core steel filament (12), the intermediate steel filaments (16) and the outer steel filaments (18) all have a tensile strength at least 2600 MPa. The cord (10) has an outer diameter D according to following formula: $D \leq d_c + 2xd_i + 2xd_o + 0.1$ wherein all diameters are expressed in millimeter (mm).

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